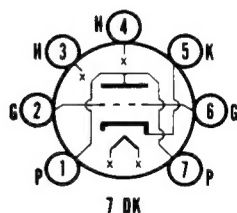




# **SYLVANIA TYPE 6AN4** UHF TRIODE



## **MECHANICAL DATA**

Bulb.....	T-5 1/2, Outline 5-1
Base.....	Miniature Button 7-Pin
Basing.....	7DK
Mounting Position.....	Any

## **ELECTRICAL DATA**

### **HEATER CHARACTERISTICS**

Heater Voltage.....	6.3 Volts
Heater Current.....	225 Ma
Maximum Heater-Cathode Voltage	
Total D C and Peak.....	200 Volts
D C, Heater Positive with Respect to Cathode.....	100 Volts

### **DIRECT INTERELECTRODE CAPACITANCES**

	Shielded <sup>1</sup>	Unshielded
Grid to Plate.....	1.7	1.7 $\mu\mu f$
Input.....	3.3	2.9 $\mu\mu f$
Output.....	1.8	0.25 $\mu\mu f$
Heater to Cathode <sup>2</sup> .....	2.9	3.0 $\mu\mu f$
Grid to Cathode <sup>2</sup> .....	2.6	2.6 $\mu\mu f$
Plate to Cathode <sup>2</sup> .....	0.18	0.20 $\mu\mu f$
<b>Grounded Grid Operation</b>		
Input.....	5.7	5.5 $\mu\mu f$
Output.....	3.4	1.8 $\mu\mu f$

# 6AN4 (Cont'd)

## MAXIMUM RATINGS (Design Center Values)

Plate Voltage.....	300 Volts
Plate Dissipation.....	4 Watts
Cathode Current.....	30 Ma
Grid Circuit Resistance	
Fixed Bias.....	0.1 Megohm
Cathode Bias.....	0.5 Megohm

## CHARACTERISTICS AND TYPICAL OPERATION

### Class A<sub>1</sub> Amplifier

Plate Voltage.....	200 Volts
Cathode Bias Resistor.....	100 Ohms
Plate Current.....	13 Ma
Transconductance.....	10000 $\mu$ mhos
Amplification Factor.....	70
Grid Voltage for $I_b = 20 \mu$ a.....	-7 Volts

### Mixer Service

Plate Voltage.....	125 Volts
Cathode Bias Resistor.....	270 Ohms
Plate Current.....	7.0 Ma
Oscillator Injection Voltage (R M S).....	1.4 Volts
Conversion Transconductance.....	2900 $\mu$ mhos

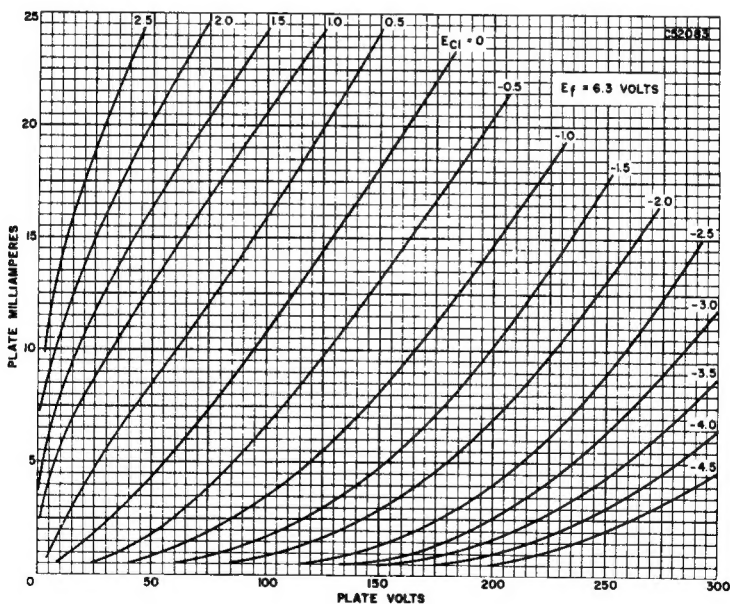
## NOTES:

1. Shield No. 316.
2. Measured between specified elements only. When external shield is used, it shall be grounded.

## APPLICATION

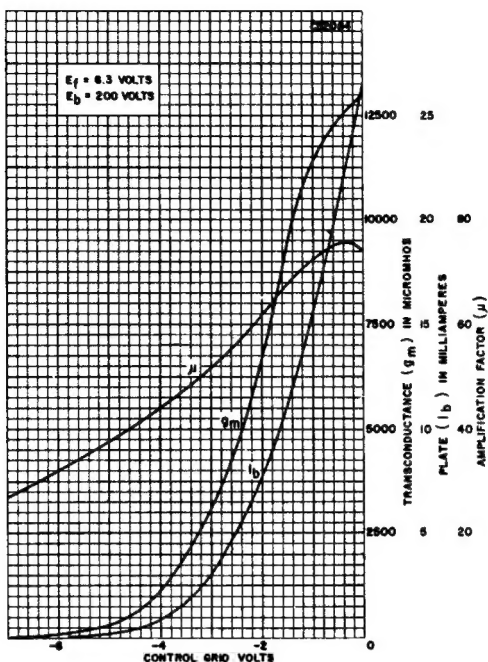
Sylvania Type 6AN4 is a miniature high-mu triode designed for use as a grounded grid amplifier or mixer in u h f television applications.

## AVERAGE PLATE CHARACTERISTICS



# 6AN4 (Cont'd)

## AVERAGE TRANSFER CHARACTERISTICS



## AVERAGE TRANSFER CHARACTERISTICS

